april 15,1960 Charlotterville.

8:20 Thileage - 3248

No. 4-1660-1				· ·	1000000		16,1	A designation of the designation of
Charleston	Cook	& Stat	te_X	re y	him	~	Con.	Jenn.
Lac. about 21/2 miles m. of	d	harl		-on	· U	2	21	. 11
1-2 ft. deep ditch will							The second secon	
Cabindant sulmerged		7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7						
Water clear, probably follute		Control of the last of the las		low	no	der	atelij	switt
Width Depth_			11				ip.	
Bottom pelbly and mul								
Vegetation_algae							IN ANTO	
Shore cultivated land	ru	bru	۰	,				
lonicina						Air	Temp	•
Weather								OA,M,
Capture_								
Det.		Col	1.					
	SI	SII	\$	đj	2 j	Qе	2y	
C. striatus					1			

9 5 5 3 Blanca

No. 4-1660-2a, t,c		Dat	Le_	24		16	19	60
Charleston	Co.é	& Stat	ie 1		ley	*	2	<u></u>
Loc. 3 miles, of Charle	Hen	, Uu	d.		11			B 1770 y chillipson servind state i september
	· · · · · · · · · · · · · · · · · · ·	s 1			CR	1,7	ع ال	1112
+-10 f.t. wile	C P	4 3	1	700	1			
Water Clean			F	low_				
WidthDepth_+ 1 1/2_			pH_			Tem	p	
Bottom wast clay, gravel	<u> </u>	- 20	w	. A	one			
Vegetation		U						
Shore then form lan	do				-			
						Air	Tem) •
Weather						Tim	e	
Capture			•					
Det.		Col	1					
	δI	SII	t	đj	2 j	Şе	Qy	
O. erichsonianus	1		•	6	2			
C. 1. long iros tris	1	4	6	3	4			
C. Striatus				1				

; 'A

No. 4-1	660-3		Dat		4	8-1	16	, 19	68
Chan	lesto	Co.&	Stat	e	12	v Qu	7 6	e.	1
							U		
Loc. 3	miles A. S. Cl	lesto	ı	11	R	Line	8. 1		
00224	Frint filled se	an							
rear Bull 7		ALC: UNKNOWN BOOK	to y	1,0	ith	. Ca	up,	10	Liamen
Water	e very swift			F	low_				
Width	Depth		7	pH_			Tem	p	
Bottom_cl	ax + gavel								
Vegetation									
		^		-					
Shore	- fam land	ls							
V	V						Air	Temp	
Weather							Tim	e	
Capture									
				-				-	-
Det.			Col	1				;	
		δI	SIL	\$	đj	2 j	\$e	2y	
0.	1. longirostris	3	4	8	4	12			

88,2

No. 4-1660-4a, 48, 4c.		Dat		11				
Loc. 1.2 miles s. of U. S. Hy		Stat				1122		
neer crossing of river &								
Water trif, to Jenn clear, s	ni	4	F	low_	Na	pi	d	
Width 25 ft. Depth + 3	1		pH_			Tem	p	
Bottom rockly								
Vegetation Tolveg in water	~							
Shore pire maple circe	م	wi	عاه	w				
						Air	Temp	
Weather Clean,				•		Tim	e	2
Capture								
Det.	-	Col	1					
	SI	SIL	\$	đj	2 j	\$e	2y	
O, nusticus farceps	9					2		
O. erichronianus	1							
Cambarus Cartonie subsp.			1	1				
	100							

go 3. 2 S. Pillsburgh

No. 4-1660-5 Doottshow	Co.&			16		- 61	196	o Cla,			
Loc. jist n. of city limits nimow form. Poule	1	scot	le G		, ,	1.	8.3	ly 72			
Series & exclanations. Water_			F	low_							
Width Depth Depth Depth	pHTemp										
Vegetation Jypha algae Shore											
Weather							Tem	0			
Capture	-	-									
Det.	\$I	GII	5	đj	2 j	Şе	2у				
P. blandingii acutus	1	1	21	1	21						

No. 4-1660-6a,66	Co.	Da & Sta	te_	ap e.l.	11	6 /	96 as	
Loc. Crack - just . Daty		- And	K pro	5	2 = 3	Juli	l o i	
Water			F	'Low_				
WidthDepth			pH_			Ten	ip.	
Bottom sand & murd - no	10	cho.		k &	1			
Vegetation			B	in	Dun	· J	المحمد	ional o
Shore Willow: - Handwar		De 1-2	Mark					
			V			Air	Temp) •
Weather						Tim		
Capture								
Det.		Col	1					Water Company of the
	dI.	BIL	\$	đj	2 j	36	2y	
P. C. acutus		1	2	2/	4			
Cr striatus		/	3	6	10			
			-					

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my p

200 76.5 and 79.0

No. 4-1660-7a,6	She is	Da	te_	0	p.	16,	191	60
arab	Com	& Sta	te	ha	sho	el	00	,a
Lac. 21/2 mi. e. of a	al	5 8	t,	24	1.6	9		The state of the s
trib to Brown's Creek	6)	Je	m	200	201	1	4.	
Water clear			F	er our			-4-	7
Width 10-15 ft. Depth my to	2 4	et.	-77	TOW				-
Bottom rocky with spange;	0		ph_			Len	1p	
	alg	al,	-6	you	goa			
Vegetation whome		-		-			2	
Shore willow, fine, tulip	pro	slar						E EN'
	0 0					Air	Tem	D.
Weather Sunny warm							3	45
Capture					-	1 111	a	
					-	-		
Det.	1	Col	1 -				-	
	dI	SIL	8	dj	Si	86	6A	
C. striatus	2	2	6					
O Grenitylus validus	1							
					10000			

83,6

No. 4-1660 - 8a, 6	Co.& (Da te State					960	clai
Loc. 6.6 miles s. w. 9 a Black Warrier Arai	nat	1	٤,	247	169	7		
			17	ow_	e,	to.	elin	ggiol
Width 2-10 ft Depth 3+			H			Temp		70
Bottom rocky - bel rock Vegetation on he in Water	- in	po						
Shore pine, liréodendron								
						Air	Temp	
Weather	-					Time		
Capture								
		Col	1					
Det.	3I	BII	\$	đj	2 j	Şе	ÇУ	
C. obstipus	1	1	6	1				
Cestriatus			3	1	1			
				an attended to		and the same of th		

Cullman - 909,1 Date OA Cullman Co. & State Cullman Loc. Little River, 5,7 St. 7 Jy, 69 (19.8 mi. s. w. g arak Water_clear Width 20-25 Depth 2 Bottom rocky + sende Vegetation_ Shore in ravine, with usual ravine Air Temp._ Time_5;30 Weather_ Capture_ Det. Coll. SII đj Qj çe çy C. striatus

No. 4-1760-laste cullman	Co.&	Dat Stat	e	ap	en-	7,	19 Co	. o	la	- 1
Dib to Ryan Cruk.	<u> </u>	, 1		8.7	+7	. 2	78			
Water clear			F	low_	nos	lenā	de a	ti	pp	les
Width 10-20ft Depth up t	0 7		pH_			Tem	p			
Bottom rocky										
Vegetation where in water	- 0	clas	e.	4						
Shore pies liviadent	0									
			-	-		Air	Temp		at an Agradia	
Weather said						Tim	e 9;	15 A	TIN	1.
Capture										
Det.		Col	1							
2- bletting	\$I	3II	\$	đj	2 j	Şе	2y			
C. obstipus			2							
C. striatus			3	1	1					

4545

No. 4-1760-2								ala.
Loc. 12.1 mi. w. g dull Crockel C	ma	e,	u	8	24	y.	27	8
Water Dear Width 40 ft. Depth + 3 Bottom Sand & rock at			pH_				<u>大</u>	riffles
Vegetation		V						
Shore dup valley stream		like		pro	eed	0		·
Weather rainy						Tim	e / 0 .	154 M
Capture								
Det.	1	Col			1	1		
	\$I	gII	\$	đj	Ωj	Şе	Çy	
Coletipus					4			

aliber 2.2 3000 2019

No. 4-1760-3a, 3b.	Co.é	Dat & Stat		-				960 ala,	
Loc. 20.9 mi. w. g enel East Fork & Cro	Name and Address of the Owner, where the Owner, which is the Owne	Name of Street, or other Designation of the Owner, where the Parket of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, whic		COLUMN TWO IS NOT THE OWNER.	24	ð:	27	8	
- Black Warrier Drain	ige								
Water clean Width 40 st. Depth up t	7 3			low_	slu	011		to mad	-1
		loned	pH_	<u>-e</u>	- fang	Tem	ip		
Vegetation none in water					a li				
Shore ravine shear - prine, circie Weather overcast	w	lla			ein	Air		0. 10:45	A.M.
Capture									
Det.		Col	1	1					
	SI	gII	\$	đj	2 j	Şе	2у		
C. obstigue O. setiferare	8	2	2	2	1	3			

50%

42.9

No. 4-1760-4	Date apr. 17, 1960											
O-Latinovice -	Co.&							ala				
Loc. 16 7 mi, w, 8 all		ويرونون ويستوطفون والمستوي والمتراث		The second second	, 2	-7	\$					
w. Feb ship.	/ Cent	~ · ·										
Water clear			F	low_	y â	June 1						
Width 40-75 At. Depth 3+												
Bottom Rank + Noch												
Vegetation ve in nate												
Shore bypical Marine	xQ ~	<u> </u>	Ser.									
						Air	Temp	•				
Weather	-					Time	e_7	son				
Capture					· · · · · · · · · · · · · · · · · · ·							
Det.		Col	1			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
	δI	BII	\$	đj	Çj	Şе	Çy					
0. crockeri	1											

Date 4-1760-5a,5b. Cat. No. apr. 17, 1960 P.O. Souble Springs Co. & State Walker Co., ala Locality. 15.7 mi. s. of souble springe, A. Hy. Quadrangle ____ Elevation ____ Water: slightly cloudy Flow sluggish Width 4 lt. Depth up to 2 pH Temp. Vogetation ___ Air Temp. Timo /: 8-8 Weather Evercast Method of Capture____ Preservative Collected by: General Notes: C. striatus O. crockeri 19,2 jm2 1071, 19, 19 with eggs.

87.1 84.7 2.4

Date 4-1760-6a,1	66,60. Cat. No. asr, 17,19
P.O. Odsper	Co. & State Qualker Co., ala
Locality. 2.4 mi. W.	Dager, U.S. Hy. 78
- Into to pulbers	y Fk. 2 Black Warrior
Quadrangle	Elevation
Water: slightly cloud	Flow sluggish
Width 10-20 pt. Depth	Up to 4 pH Tomp.
Bottom Rand & siet	
Vogetation	
Shore Willow swamp	e-talipe pylan
	Air Temp.
Weather	Timo 2:15
Method of Capture_	
Preservative	
Collected by:	
General Notes:	
O. setiferus	107I, 107I, 107jmr.
	2 jnr 07
. C. striatus .	2 jin 9

Date 4-1760-70,74,7c,7d Cat. No. apr. 17, 1960
P.O. Carona Co. & State Walker Co., ala
Locality. 16.2 mi. from junction of U.S. 78 with St. 24.
en st. sty. 18
Quadrangle Elevation
Water: Clear Flow sluggish
Width 15 ft. Depth 6 in. pH Temp.
Bottom smæll pebbled
Vegetation
shoro willow, sweetgum, tulip joplar
Air Temp.
Weather werest Time 3,00
Weather werest Time 3100
Weather Time
Weather Timo
Weather Timo
Weather were Time 3168 Method of Capture
Weather suggest Time 3100 Method of Capture Preservative Collected by: General Notes: Lala & Liagues Aurrows
Weather we cet Time 3:00 Method of Capture Preservative Collected by: General Notes: Late 9 diagness durrows O. crockeii? 207jur, 24jur
Weather we see Time 3100 Method of Capture Prescriptive Collected by: General Notes: lots & diagnes durious O. crockeri? 207jur, 24jur O. settferus? 107jur.
Method of Capture_ Preservative Collected by: General Notes: D. crockeri? 20 Jur, 24jur O. settferre? 10 tjur. C. obetigns 207 jur
Weather we get Time 3100 Method of Capture Prescriptive Collected by: General Notes: lots & diagnes durious O. crockeri? 207jur, 24jur O. settferus? 107jur.

15.72

Date 4-1765-8a,86,8a	Cat. No. apr. 16, 1960
P.O. Berry	Co. & State Frystle Co., ala.
Locality. S. Emi, W. R. Fans	the - walker Co. line St.
24.18 °	
Quadrangle	Elevation
Water: clear	Flow shipsish
Width 6-10 ft. Depth 2-	t pH Temp.
Bottom Clay + rocks	
Vegetation none	
Shore sweetym, willow	Pers pina
	Air Temp.
Weather	Time # 100
Method of Capture	
Preservative	
Collected by:	
General Notes:	
O. decus 201I, 107pm 2	4 mr 3 4 0882
O. crockin? 181II, 287jon	
Q. 4. +	0
C. striatus 17,107 jur	

32.8 Jagelle

Date 4-1760-9a,94	Cat. No. apr. 17, 1960
P.O. Fayette	Co. & State Fayette Co., ala.
Locality. 5 mi. w. of far	welle St. St. 96
Jantille C	Mainous
Quadrangle	Elevation
Water: cloudy	Flow moderate
Width 10 ft. 0 Depth 3+	pH Temp.
Bottom sand & silt	
Vogetation	
Shore willow, sweetgun	, shad hush
	Air Temp.
Weather rainy	Timo 5 P. 7u,
Method of Capture	
Preservative	
Collected by:	
General Notes:	
C. striatus var 107 Trot notched cent	I,4077, 29, 101 jur, 28 jur,
0. westi 1 jm 07.	

43.0 Payette - Lamar Co. line

Date 4-1760-10a, 108 Cat. No. 242, 17, 1960
P.O. Fayette Co. & State Payette Co. ala
Locality. 9mi. w. of Fayette, St. Hy 196
tontifica
Quadrangle Elevation
Water: slightly cloudy Flow Flow Took to enje
Width 10 pt. Depth + 3 pH Temp.
Bottom sandy
Vegetation
Shore salyy pines severtain -
flat cultivated a
Air Tom
Weather Air Temp Timo 5,40 P.W.
Method of Capture
Prescryative
Collected by:
General Notes:
O. westi 207 II, 101 jm, 19 jm.
C. striatus 29, 10 m

Date 4-1760-11a, 116	Cat. No. RA 17,1960
P.O. Millport	Co. & State Laman Co, ala,
Locality. 81/minure of J	æyette - Lamer Co, line
St. Hy. 96	
Quadrangle	Elevation
Water: slightly cloudy	Flow moderate
Width 30 let. Depth + 3	3 pH Tomp.
Bottom sand	
Vogetation_none	
Shore swampy - enet	gusar, esta
	Asa Tomas
Weather overcast	Air Temp.
	Time 6!15 8.74.
Method of Capture	
Preservative	
Collected by:	
General Notes:	

Questi 201 II
C. stratus 201 II, 14

Date 4-1860-1a,18,1c Quadrangle Elevation ____ b - 2 At pH ______ Vogetation ______ Air Temp. Time 9:00 A.M. Weather Summer Method of Capture Preservative ___ Collected by: General Notes: P. b. acutus 107 II, 3 jm 07, 6 jur 4. C. striatus rar 107I, 5091, 6 ju 07 4 jur 9

	Date 4-1860-2-a, 28, 20, 2d Cat. No. apr. 18, 1960
	P.O. Columbus Co. & State Loundes Co., Thise
	Locality. 5.3 mi e. 9 Columbus, St. Hy, 50
	(talled 9ty, Your mad)
	Quadrangle Elevation
	Water:Flow
	Width Depth pH Temp.
	Bottom Readside ditch, chaked with grassed
	Vegetation
	Shore
	Air Temp.
	Weather Time/ & A.M.
	Method of Capture
	Prescrvative
	Collected by:
	General Notes:
	1 1 2 1 7 ((((((((((((((((((
1	C. fadiens? 107 I (numbered-(4-1860-2))
1	
1	
	P. hybus 500 II, 39
	P. L'acutes 301II, 10070jin 13 fjir.

Date an 18 1960 No. 4-1860-3a, 36, 3c, 3d co. Lowndes Columbus St. Miss. Locality 2.3 mi. w. of Columbus 14.8, Hondside ditch 200 ft. long, mot over 2 ft. dap Quadrangle _____ Elevation ____ Atm. Pr. Time 11130 Weather Sunny Rel. Humidity Temp. Terrain Geological Formation Turbidity Flow Temp. pH Width Depth 02 CO2 M. O. Alk. Phenolphthalein Alk. __ Bottom and see Shore 1407 (Bottle II) 181, 20711, 19) C. Lodiens -

1095.3

No. 4-1860-4	2,48	Date_ 0	pr. 18,196
Columbus		Co. 4	Soundes.
		St. M	iss.
Locality 11.3 mi.	w. of calum	bus, U.	A.
- 24. 82	V		THE SAME OF COMMENT AND THE RESERVE OF THE SAME OF THE
Poodside d	litch-ongrai	we	
Quadrangle	Elevation	Atm	. Pr.
Time 12:45 Weath	hor Rel.	Humidity	Temp.
Terrain		-	olis dilaksi olisi tilaksi olisi silaksi olisi salah sal
Geological Formation			
Turbidity	Flow	Temp.	pH
Width			The second second
	Phenolphthalein Alk.		
Bottom			
			effert ante eigen er jott af entspreift a ventrettigtenne til met tillettigsenne geligten er agsat
	mi a tanco ambana an cumum antar cabuma ana ar mga aya gangura may amangana ana ana ana ana ana ana ana ana a		
Characteristics			
Shore of patte	re sanas	20 -	
D & 1	acuus lott,	34, 5 gm	~ +
To hypu	2 8011 , 8	**************************************	The second purposes in the second
		-	

Date apr. 18, 1960 No. 4-1860-5 co. Oktibbeha Starkville St. Miss. Locality 6.4 miles s. w. of This State Unit. Campus), St. Hy. 12_ Quadrangle Elevation Atm. Pr. Time 3:50 Weather Rel. Humidity Temp. Terrain Geological Formation Turbidity Flow Temp. pH_____ Width 10-20 ft. Depth 2 ft. 02 CO2 M. O. Alk. Phenolphthalein Alk. Bottom clay & sand

33,9

No. 4-1860-6 Starkville

Date of 18,1960

Co. Oktibbela

St. Thise:

Locality 15,2 m	i, s, w. g	trisa et.	unit
Campus, St	1) dy 12 1		
Road	ide ditch	Darraw pit	
Quadrangle		V	
Time 3130 Weat	cher	Rel. Humidity	Temp.
Terrain			
Geological Formation			
	manusco de casa e de composiblemente podrate com este mala risposa de vicina consideran de combinada este quan	e glas quae contra con e quae (m Limin contra), can historica dinator retornati erica en . Pregant e galanticad	
Turbidity	Flow	Temp.	pH
Width	Depth	02	co ₂
M. O. Alk.	Phenolphthalei	n Alk.	
Bottom			
Shore			
Pati.	20 5	7 . 20.	
- aun uremus -	-39,5	Im the	
Tabeled	P. haye)		

2 holles 38.9.

36.2

2.7

No. 4-1860-7a,76,7c	Date apr. 18,196
Sturgis	Co. aktibleha
	St. Miss.
Locality 2.7 mi. w. of Sturge,	
· 6 mi. eg optibleha - Choeta	
Quadrangle Elevation	
Time 4,00 Weather sung Rel. Humidi	ty Temp
Terrain	
Geological Formation	
Turbidity Flow Moderate Tem	ppH
Width 20 ft. Depth 2 ft. 02	CO ₂
M. O. Alk. Phenolphthalein Alk.	
Bottom	Tapangkan ang kan anut ne ang ak a mini sa kana sang dan anut a mang anut a sang ang an ang ang ang ang ang ang
clear - sandy bottom	
Shore willows -	
P. acutissims/07 II, 1 jns 9	
0. crockeri (?) 1 jn 4, 19wi	theory,
C. striatus var. 307 II, 299,	2 jn 2
the state of the s	

No. 4-1866-8a, 86, 8c, 8d Date 2/1 (18) 1960 co. Chactair St. Miss. Locality 6 miles W. of Oktobleha - Choctan Es, line, et, Dy, 12 Quadrangle _____ Elevation ____ Atm. Pr. Time 4:40 Weather sund Rel. Humidity ____ Temp. ___ Terrain Geological Formation Turbidity Flow Auggson Temp. pH_____ Width 2 ft Depth O2 CO2 Phenolphthalein Alk. M. O. Alk. __ Bottom ___ Shore Awamby C. striatus

45.7 2 Nother 3 No. 4-1860-\$ Date apr. 18, 1960 Co. Choctaw 0 St. Miss. Locality 7.9 mi, swift ackerman, St. Hy. 12. roadside ditah Quadrangle _____ Elevation ____ Atm. Pr. Time 5.00 Weather sunny Rel. Humidity ____ Temp. ____ Terrain Geological Formation Turbidity Flow Temp. pH Width Depth 02 CO2 M. O. Alk. Phenolphthalein Alk. Bottom Shore

Date opr. 19, 1960 No. 4-1960-la,12 Hoscinsko Co. attala St. Thisse! Locality 3,2 mi. s. of junction of St. Hys. 35+14, on Hy. 35, -Quadrangle Elevation Atm. Pr. Time 1:45 AM. Weather ____ Rel. Humidity ____ Temp. ___ Terrain Clanda Water Geological Formation Turbidity_____ Flow shagish Temp. ____ pH____ Width 4-6 ft. Depth 2 ft. 02 ______ CO2_____ M. O. Alk. Phenolphthalein Alk. Bottom sand + clay Tyun, talip poplar, willow P. blandingii acertus 29, 1 juv 07, 3 jur 9 C, striatus 19,5 jur 01, 4 jur 9

Carthage 289.8

No. 4-1960-2		Date_ay		60
walnut knowe		Co. Lea	Be	
		St. M	المحالية الم	
Locality 11.9 min.	of Careha	ge, St	Hy 35	
wetwestler gool in	sature la	بال	ven cland	ly o
	evation	Atm.	11	Water
Time 9 A.M. Weather				
Terrain				
Geological Formation		in the programme or the programme with or the second contract of the second contract of		
Turbidity Flow	Tem	p	pH	
Width Depth	1/2 02		CO ₂	
M. O. Alk. Phenolphtl	nalein Alk.			
Bottom	and the supplementary to be a supplement program, and where stagets or responsible to the program of the supplementary to the supplemen			
talldiogenes	cherneys	in		
adjacent	field "			
Shore				
P. b. autro	301I, 19 pm	7,14	w &	(36)

No. 4-1960-3 Forest Date apr. 19,1960

Co. Scott

St. Miss.

Locality 8,6 mi.	1 1 9	be Sest	t (2).
St. Dy. 35	7. 7		
time road	side di	tal	
Quadrangle		on	Atm. Pr.
Time 9:25 Weather			
Terrain			
Geological Formation			
Turbidity	Flow	Temp.	pH
Width 5	Depth	02	CO ₂
M. O. Alk.	Phenolphthale	in Alk.	
Bottom		and coming property and property states of a common property of the common property and common description and of the continues.	
12 ft. la	8		
clay silt	y bollow		
	0		
Shore			
C. b. aculus	5071,4	AII, 99, 2	Bjur, 5 & jav
	and the same of th		

No. 4-1960-4 13,0

Date apr. 19, 1960

Co. Scott

St. Miss.

Dy. 35	on De	4: +1		
	AND ASSESSMENT OF THE PARTY OF			λ 1
Quadrangle				Atm. Pr.
Time 9:50 We	eather	R	el. Humidity	Temp.
Terrain			n der steller, gleich geleichte der gestelligtet an dem seine seine beiter eine bestellt einer bei	
Geological Formatio	on			
Turbidity	I	Flow	Temp.	pH
Width				CO ₂
M. O. Alk.	Pheno:	lphthalein	Alk.	
Bottom Clay				
U				
Shore Jan	I land			
1016				
PO	+	/ 37	1 2175 11	0 2 0
1.0.ac	ulus 6	011	6014,4	I sym I
	-			

Date apr. 19,1960 No. 4-1966 - 5 co. Parken Locality 15 mile from scott-Rankin Co. Line and formant pt darky water Quadrangle _____ Elevation ____ Atm. Pr. ____ Time Weather Rel. Humidity Temp. Terrain Geological Formation Turbidity______ Flow _____ pH ____ Width Depth 02 CO2 M. O. Alk. Phenolphthalein Alk. Bottom Alue Clay Shore P. blandingii acutus:
201 I, 307 II, 109, 4 jur 07, 3 jur 9

Date 841. 19,1960 St. Miss. Locality 9 mile from Scott - Rankin G. dine
W. 5, 88 Auggeb stream - cloudy water Quadrangle _____ Elevation ____ Atm. Pr. Time ____ Weather ___ Rel. Humidity ___ Temp. ___ Terrain Geological Formation Turbidity Flow Temp. pH Depth 02 C02 M. O. Alk. Phenolphthalein Alk. Bottom clan Shore P. b. acutus 1071

No. 4-1960 mige	-1a,76	Co.	Smith
Locality & Ci	ty lite of	mige, on	St. Hy, 35
Terrain	eather	Rel. Humidity	tm. Pr. Temp.
	n		
Width	DepthPhenolphthalein	02	co
Shore P. L.	coutus 207 I	, 1 07 II , 24)	207 ins
Cambar	m 3p. 19)	3 jurs 07, 1 jur 9	

30.2 Co. line 22.2 Date_

No. 4-1960-8 Celleris Date apr. 19, 1960

Co. Covington

St. Thise.

Locality 28	in les s.	D Shot	aline	, u. d.	
11. 19	- out	ما		Cente	-
Tolest	Co. eil	- Rec	deide	dille)
Quadrangle		Elevation _		_ Atm. Pr	
Time 2:45	Weather	Rel.	Humidity _	Temp.	-
Terrain					
Geological Form	mation				
		NAME AND ADDRESS OF A PROPERTY OF PARTY OF PARTY OF PARTY.	ation. In commission to Aprillating god to day promise across to Jungar		
Turbidity	Flo	ow	Temp.	рН	
Width	Depth _		02	CO ₂	
M. O. Alk	Phenolph	hthalein Alk			
Bottom		ny - manggar as no are. It pagamentally believe a pagint pagament, any as one pagin			-
Shore					***************************************
Pit	P. acutus	107年,三	399		

Date 14 June 60 Cat. No. 60-14,60-1a, 1b
P. C. Jones boro Co. & State Akausas Craighead
Locality Guall S-Irean Ca. 5 mc. Nw of Jones born on
USP+63 at Fruest Robert's Grocery Hove
Quadrangle Elevation
Water: Cloudy, tirled, oily Flow Sluggish
Width 3ff Depth of pH Temp. 27°
Bottom Sclfy
Stream Vegetation None
Shore Vegetation Salik. Pinus, Quercus, Juneus
Air Temp. 75°C
Weather Fail to Cloudy Time 10:45 A.M.
Method of Capture
Preservative
Collected by:
General Notes:
Orconectes palmeri palmeri 101, 1011, 40 juv., 40 juv.

6-1460-2a, 2b Cat. No. 60-2 Co. & State Missoure State Rt. 13 Quadrangle Elevation_ Water: Flow Width Depth_ Kocky Bottom Stream Vegetation Associated Shore Vegetation Salix, Plafances Air Temp. Weather_ Time Method of Capture Preservative_ WMALIA Collected by:

General Notes:

Orconectes nais loll, 200, 700 juv., 10 juv. Orconectes neglectus neglectus ?? 200II, 10,

Date 15 June 60	Cat. No. 60-3
P. C. Topeka	Co. & State Kausas
Locality Intermillent strea	m on state +t. 18 -
12 mi, west of To	
Quadrangle	Elevation
Water: Clear	Flow Sugarsh
Width 3 1 Depth 5 f	pH Temp. 35°C
Bottom 50/64.	
Stream Vegetation Tunha	
Shore Vegetation Saler, Tupha	
	Air Temp. 100° F
Weather Fair	Time 12:20 P.M.
Method of Capture Seri	
Preservative Formalin	
Collected by: Crawford	
General Notes:	
0. nais - 4 II, 4,9, 18 juv.; 10,9juv. P. gracilis - 19juv.	

	7-360-1	
Date 3 July 60	Cat. No. 60-4	
P. C. Coolille	Co. & State Oyego	
Locality Nath Fork of Coo	sielle Diverzo	2 Tenner North
	: upstream from	. 11
Quadrangle	Elevation	
Water: Clear	Flow Sluggish	
Width 30-40f Depth 3-10	A pH	Temp.
Bottom Gravel to Clay		
Stream Vegetation		
Shore Vegetation		
	Air Temp.	
Weather Fair	Time	
Method of Capture		
Preservative By Hand -		
Collected by: de Roth, G	F.C.	
General Notes:		
Pacifastacus trowbridgii 200, 200, 1 juv.		

Date Sept. 20, 1960	Cat. No. 60-9
P. C. Tamestown	
Locality Pipestem Creek N	ber junction à James River
in Klaus Park within	city limits of Tamestown
	7
Quadrangle	_ Elevation
Water:	Flow
Width Depth	pHTemp
Bottom	
Stream Vegetation_	
Shore Vegetation	
	Air Temp.
Weather	Time
Method of Capture Hand and se	
Preservative Formalin -	
Collected by: Lawrence J. To	Ily - Biol. Dept. Tamestown College
General Notes:	7

6-1560-2 Date_____ Cat. No. 60-9 P. C. Tamesfown Co. & State No. Dakota Locality Quadrangle Elevation Water: Flow Width Depth pH Temp. Bottom Stream Vegetation_ Shore Vegetation_ Air Temp. Weather Time Method of Capture__ Preservative_ Collected by: Tilly, Lawrence General Notes:

Orconectes virilis 101, 200 juv., 10 juv.

	7-1060-1
Date 10 July 60	Cat. No. 60-5
P. C. Reedsport	Co. & State Doceglas - Oragon
Locality Umpaua State Par	k-lake
Quadrangle	Elevation
Water: Clear	Flow
Width Depth	pHTemp.
Bottom Rocky to Sande	
Stream Vegetation	
Shore Vegetation	
	Air Temp.
Weather	Time
Method of Capture 134 Hand	
Preservative Formalial	
	- A = 1/1/2 Chas
Collected by: Stone Daugh, 1	1. 7 1+11en, Chas.
General Notes:	

Pacifastacus trowbridgii lo

	8-1960-1
Date 19 August 60	Cat. No. 60-6
P. O. M. Bushners	Co. & State So. Dakota
Locality Spring Creek on 1	PS Rt. 16 at junction of Rt. 16
and Rt. 385	
Quadrangle	Elevation
Water: Cleav	Flow Slaggish
Width 10 ft Depth 1 ft.	pH
Bottom Rocky to City	
Stream Vegetation Assorbed Alg.	ac. Juncus
Shore Vegetation	
	Air Temp. 80°
Weather Fair	Time 2:30 P.M.
Method of Capture	
Preservative Formalia	
α , α	aw Vord
	au Vork

Orochectes inamis 171, 6711, 50, 68 juy, Spiev.

Date 21 Aug 60	8-2160-1 Cat. No. 60-7
P. C. Weaver	Co. & State Minnoesofa
Locality Snake Creek betw	een Wesyer & Kellogo on
CRS Rt. 61 - 45 mi. Nove	0 on Weaver 11
Miss drama	je!
Quadrangle	Elevation
Water: Clear	-Flow Sluggist
Width 1041 Depth 54	pH
Bottom Selfy	
Stream Vegetation Tours	
Shore Vegetation Salic Malauus	
	Air Temp. 920
Weather Fair	Time 2:30 PM
Method of Capture Sein	
Preservative Formalia	
Collected by: Crawford & Cr	aw/ord
General Notes:	
Cambarus diogenes 500 juv., 200 juv.	

THE RESIDENCE OF THE PARTY OF T	8-2360-1
Date Aug 23, 1960	Cat. No. 60-8
P. C. Scottsbara	Co. & State Indiana
Locality Small (UNNamed) 5/x	ean on US Rt.31
4.6 mi south of Sc	
Quadrangle	Elevation
Water: Clear	Flow 5/4ggish
Width 3ff Depth .5f	pH
Bottom Silty to sandy	
Stream Vegetation Kowe	
Shore Vegetation Platanus, Taph	a, Salix
	Air Temp. 82° F
Weather Fair	Time 10:30 AM
Method of Capture Sein	
Preservative Formslin	
Collected by: Crawford & Cra	wford
General Notes: Orconectes sloani loI, 1100II, 700	

Date Oct. 21 - 60	10-2160-la,lb
	Cat. No. 60-10
P. C. Madison	Co. & State Wisconsin
Locality Gardner Pond in (luiversety Hybonetum
Quadrangle	Elevation
Water:	Flow
Width Depth	pHTemp
Bottom	
Stream Vegetation_	
Shore Vegetation	
	Air Temp.
Weather	Time
Method of Capture Turtle Trap	
Preservative Formalin	
Collected by: Elizabeth Middl	eton & Kathy Ream
General Notes:	

O. virilis 101, 200 C. diogenes 101

	11-2860-12,10,10
Date Nov. 28, 1960	Cat. No. 60-11
P. C. kodak	Co. & State Perry - Kentucky
Locality Montgomery Creek	- in villago of Kodak
Kenter	Les Re hor.
Quadrangle	Elevation
Water: Clear	Flow Moderate
Width 12ft Depth 5ft	pH Temp.
Bottom Rocky to Sandy	
Stream Vegetation	
Shore Vegetation Platanus, Salix	Betula, Ouercus
	Air Temp.
Weather	Time
Method of Capture By Hand	
Preservative Tsopyople F	Wales (
Collected by: Kenne-ff Colw	011
General Notes:	
O. juverilis 1 I, 10	
C. carolinus l'I C. robustus 3 II, 200	

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Vegetation ho.								
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B) C. bartonii			1					
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idth 6 Depth 6"			pH_			Tem	p		
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223.8 Talcott

10. 4-1561-6 Jalcett	Co.&			-	<u></u>			w.Va
227.3 Loc. 3.5 mi w. goo	ido	21						
Heenhiar R. ater clear twentling on width 6-10 Depth	erro	cks				All .	No.	
Tegetation none								
Shore Bagus, Platan. Weather sunny.	ue		rus.	2 '			Temp	
Capture		Col	1					
	\$I	SII	2	đj	9 j	٥ę	\$A	
Q C. bartonii	4	5	2	2	5			
(D) C. robustus			2					The second distribution of the above of the
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27.3								

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7,6 Loc	•—	l ni	8	2 Ra	lei	gh	0.6	ne.	0-	22	Rh	3		
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Width_	6'	Depth	1	/		pH_			Tem	p	
Rottom	rock	+ sand		13							
Vegetati	on	none									
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Danelleville	Co.&	Stat	e	Her	jel	Te .	Co,	15.	Va,
280.6Loc. 3mi S. Fanette	Jack	10	(5	tr.	en	n ')		
on Rt 21						/		Marie of the same and the same a	***
Small meandering st	rea	200	he	apid	ly 4	ישישי	ded	the	oded
ater meddy					1		,	400	
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Beckwith Co. & State Buyotte soc. Laurel Ck + tributary as	<u>co, W. G</u>
:oc. Laurel Ct + tilustery as	
Becker, the Both Hoodel	
ater greedly Flow of	4.4
width 30 Depth - 2 + pH Te	mp.
Bottom 10 cky	
Vegetation hone	
Shore Platanus, Tousa-	
Ai	r Temp
Veather Runny Ti	me /2:55
Capture	
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dI dII 2 dj 2j 20	9 ° У
C. b. bartonie 12	
	(3)
Gauley Bridge 2	97.9

No. 4-1661- 4		Date						/
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		-	15						3	14	, 4	10	1776	dore

Species No. 4-1661-5 Locality Sadin to sur don't grangish Brown sienna Light dark gray. straw brown. cream almost black. fading to Scarlet dark gray Small scalet aplotets. dark brown.

	c/										
	Stream -	3.1	me s	· 3 K	tarl	la	nd	00	n	CF.	16
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Vegetati Shore_ Veather_ Capture_	on zz	cash			Col	1			Air	e_4	

323.3 Bridge over Elk R at Hartland 327.2 Clay

-10. 4-1661-7a,18 Clay	Co.&	Dat Stat		Cla	y C	70,	w.	Va
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Fourel Ct								
ater stylth, classen			F	low_		SW	st	
idth 101 Depth 1	_		pH_			Tem	p	
Bottom socky sand								
Vegetation /								
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505,6 Ot Pleasant.

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510,0 Galapolis, Ohio.

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627.6 Rihalt
631.2 Dollesboro.
634.5-Mason Colore
635.5 Rectorville

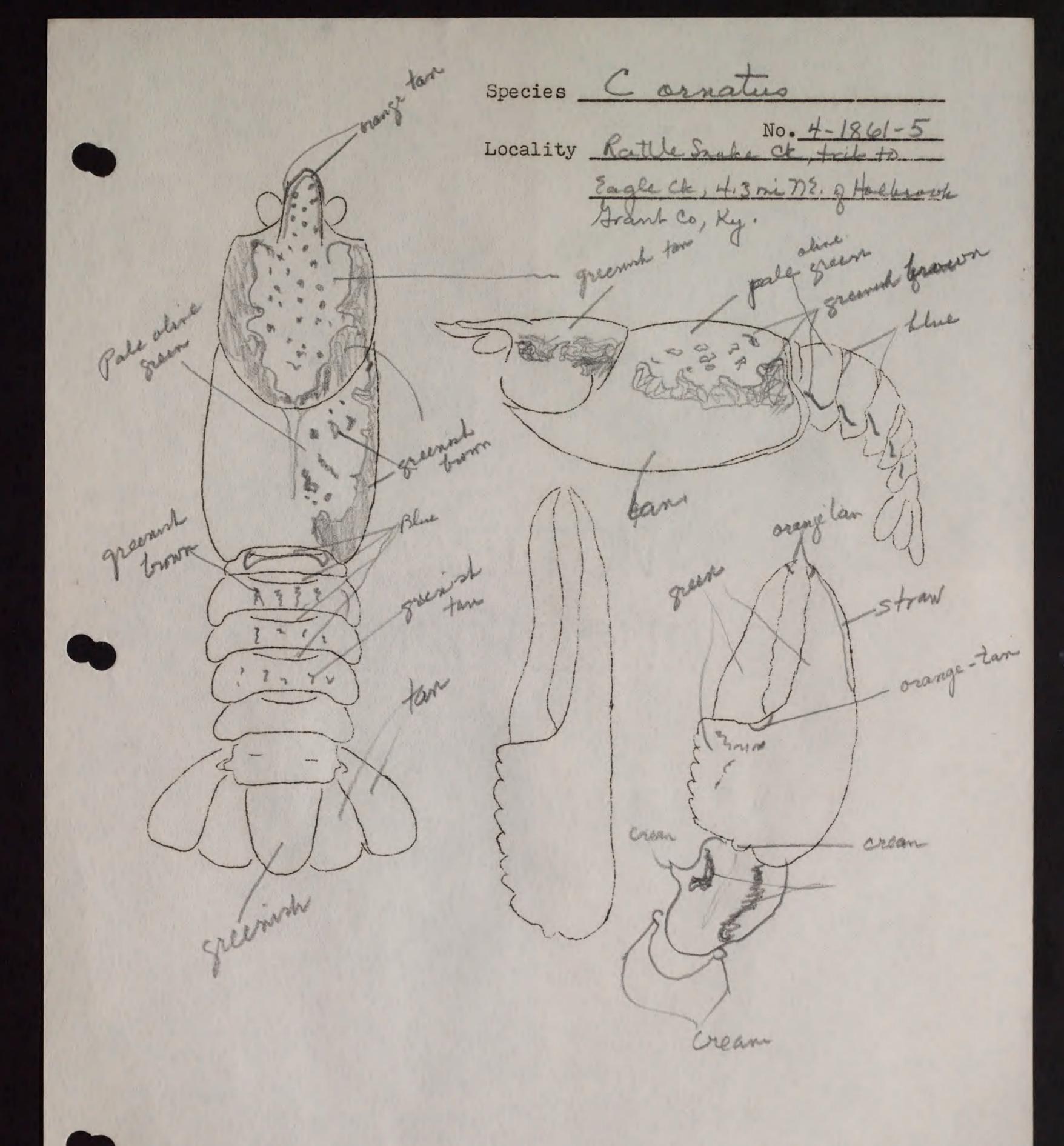
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10. 4-1861-5a,5b,5c,5d2 ja	ルン・	Dat	e_	,				
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O. r. moticus	5			3	4	2		

118,6 Halbrook 129.2. Owenton

Species Onesta northern No. 4-1861-5 Locality Pattle sunta olive brownsh red. brick nd. Cream oranjoet brick red. black. oranje recl.



diagenes var C. astmany Species No. 4-1861-5 Locality Rattlesnake Ck, trit to 4. 3 mis nie z Holdsook browned great blesish Strawbrown Bleek. pink border. Prominial Parken penterh tan Orange Bud blue . green. 3 scarlet reddish from cream green with orear punct pentish less

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23

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Depth Vegetation Det. Topotypes Cornatus O. r. rusticus Ornatuo Ellis Branch 4 mi W. of Carrollton (Rt 42) perhaps 7 mi p. jeffersonie Srib & South Fork & Beargnass Che, Buchel, Jegg, Co.
"To muddy the 3 " 11 2ml & 3 hoursville cop line
on U.S. At. 42. 761.5. Carrollton 762.1 Ky R. Bridge at C. Hon. 766. 768.0 Trimble Co line

10. 4-1961-20, Bedford	2f,2c	Co.&	Date	The residence in	22	ins	4	60	K
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D. r. rustians		4	1						
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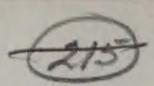
Locality 2 Beargranck, Jestenson Co, Ky. Brown dut aline. dk.hom , olive far reddish orang. black - Ruma, dask reddist Lalat" green shan k red reller

208

Date Co.& State_ 833 5 Flow_ Temp . Depth_ Bottom hed no legetation____ Shore Platanno Air Temp. Time_4:50 Weather_ Capture___ Coll. Det. ďΙ 2 jars - Or rustions 16 2 2 3452 835.5.

(209)

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Date_ Co.& State 861.1 ater Claudes Flow_ width 40 _ Depth__ Temp ._ Bottom Ancken Vegetation____ Shore Platanus Acer. Ulmus Air Temp._ Time 6130 Weather_ Lemmy Capture_ Coll. Data _ SI SII

Leyington 50011.7



Depth	water_	mid	An				F	low_		220-	d
Vegetation de la	width	20	_ Depth_	+	2		pH_			Tem	p
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